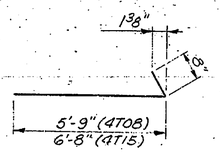
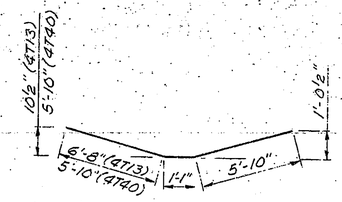
BAR BENDING DIAGRAMS

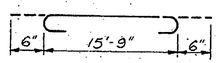
NOTE: Number preceding letter denotes bar size.
All dimensions are out to out.
All bar bending diagrams shall be in accordance with A.C.I. Standards.



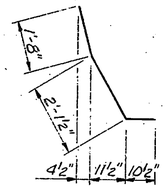
4T08(E), 4T15(E)



4T13(E), 4T40(E)

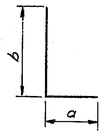


4T76



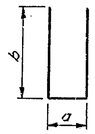
5T07(E)

Bar	a	b
4T06	8"	2'-8"
4T14(E)	3'-6"	5'-7"
5T08(E)	10"	3'-5"
5T12(E)	4'-10"	5'-6"



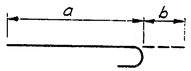
4T06; 4T14(E), 5T08(E), 5T12(E)

Bar	a	b
4T07	6"	3'-9"
4T12(E)	6½"	3'-0"
4T38	1'-1½"	7'-4"
4T39(E)	1'-1½"	3'-5"
6T07	1'-1½"	7'-4"
6T08(E)	1'-1½"	3'-5"
4T95	6"	1'-10"



4T07, 4T12(E), 4T38, 4T39(E), 6T07, 6T08(E)
4T95

Bar	a	b
4T73	8'-4"	6"
4T74	8'-8"	6"
4T75	9'-0"	6"



4T73, 4T74, 4T75

BILL OF MATERIAL

UNIT V

Bar	No.	Length	Bent	Str.
3T05(E)	208	7'-0"		•
4T06	662	3'-4"	•	
4T07	82	8'-0"	•	
4T08(E)	128	6'-5"	•	
4T12(E)	416	6'-7"	•	
4T13(E)	352	13'-7"	•	
4T14(E)	394	8'-7"	•	
4T15(E)	64	7'-4"	•	
4T38	553	15'-10"	•	
4T39(E)	189	8'-0"	•	
4T40(E)	176	12'-9"	•	
4T66	63	29'-3"		•
4T67	27	30'-3"		•
4T68	42	31'-6"		•
4T69	41	34'-10"		•
4T71	180	5'-0"		•
4T72	42	5'-3"		•
4T73	252	8'-10"	•	
4T74	108	9'-2"	•	
4T75	168	9'-6"	•	
4T76	82	16'-9"	•	
4T77(E)	94	23'-4"		•
4T78(E)	94	23'-11"		•
4T79(E)	94	24'-6"		•
4T80(E)	67	48'-2"		•
4L01(E)	49	12'-6"		•
4L04	80	60'-0"		•
4L04(E)	200	60'-0"		•
4L50	160	35'-6"		•
4L51	80	45'-9"		•
4L52	32	4'-0"		•
4L53	32	17'-7"		•
4L54	32	15'-2"		•
4L55	32	39'-1"		•
4L56	32	25'-10"		•
4L57	32	53'-4"		•
4L58(E)	100	59'-6"		•
5T07(E)	416	4'-8"	•	
5T08(E)	416	4'-3"	•	
5T12(E)	394	10'-4"	•	
5T25(E)	94	9'-3"		•
5T26(E)	94	9'-10"		•
5T28(E)	228	11'-0"		•

UNIT VI

Bar	No.	Length	Bent	Str.
3T05(E)	211	7'-0"		•
4T06	714	3'-4"	•	
4T07	96	8'-0"	•	
4T08(E)	128	6'-5"	•	
4T12(E)	422	6'-7"	•	
4T13(E)	358	13'-7"	•	
4T14(E)	400	8'-7"	•	
4T15(E)	64	7'-4"	•	
4T38	555	15'-10"	•	
4T39(E)	185	8'-0"	•	
4T40(E)	179	12'-9"	•	
4T69	186	34'-10"		•
4T76	372	16'-9"	•	
4T80(E)	211	48'-2"		•
4L01(E)	49	12'-6"		•
4L04	160	60'-0"		•
4L04(E)	100	60'-0"		•
4L65	80	14'-5"		•
4L66	128	45'-1"		•
4L67	32	15'-5"		•
4L68	32	28'-5"		•
4L69	64	39'-10"		•
4L70(E)	200	45'-0"		•
4L71(E)	100	32'-10"		•
5T07(E)	422	4'-8"	•	
5T08(E)	422	4'-3"	•	
5T12(E)	400	10'-4"	•	
5T28(E)	422	11'-0"		•

UNIT VII

Bar	No.	Length	Bent	Str.
3T05(E)	82	7'-0"		•
4T06	312	3'-4"	•	
4T12(E)	164	6'-7"	•	
4T13(E)	164	13'-7"	•	
4T14(E)	148	8'-7"	•	
4T38	222	15'-10"	•	
4T39(E)	74	8'-0"	•	
4T40(E)	82	12'-9"	•	
4T69	78	34'-10"		•
4T76	156	16'-9"	•	
4T80(E)	82	48'-2"		•
4T95	28	4'-2"	•	
4L75	112	45'-0"		•
4L75(E)	100	45'-0"		•
4L76(E)	112	25'-6"		•
4L76(E)	100	25'-6"		•
5T07(E)	164	4'-8"	•	
5T08(E)	164	4'-3"	•	
5T12(E)	148	10'-4"	•	
5T28(E)	164	11'-0"		•
5T50	16	4'-0"		•
6T07	21	15'-10"	•	
6T08(E)	21	8'-0"	•	
8T31	32	5'-0"		•

ESTIMATED QUANTITIES

Item	Unit	Total
Superstructure Concrete	Cu. Yd.	1610.5
Reinforcing Steel	Lb.	70196.84
Reinforcing Steel (Epoxy Coated)	Lb.	105558.30

NOTES: All reinforcing bars shall conform to the requirements of ASTM Grade 60.
Minimum compressive strength of Superstructure Conc. shall be 5,500 psi.

APPROVED FOR CONSTRUCTION
W. B. ABBOTT
Assistant Engineer of Bridge Design
9-17-81

Figg and Muller Engineers Inc.
Consulting Engineers
Tallahassee, Florida 32301

BAR BENDING DIAGRAMS & BILL OF MATERIAL - UNIT V thru VII

INDIANA STATE HIGHWAY COMMISSION
LAKE COUNTY - RAMP:- A SECTION:-
SCALE:- N.T.S. DATE:- June 29, 1981
SUBMITTED FOR APPROVAL Eugene C. Figg Jr.
DRAWING:- OF SHEET:- 117 OF
PROJECT:- MM 220-1 (8)
CONTRACT NO. B-12752
BRIDGE FILE:- 912-45-2546 RWX

EUGENE C. FIGG, JR. REGISTERED NO. 18563 STATE OF INDIANA PROFESSIONAL ENGINEER

DESIGNED M.M. C'K'D. M.M.
DRAWN R.E.T. C'K'D. M.M.
TRACED R.E.T. C'K'D. M.M.

10/20/81 Revision: Estimate of Quantities